

Project #

12SF073

Site Name:

Dimock Residential Groundwater

U.S. EPA Region 6 Laboratory

Laboratory Report Approval and Release Authorization

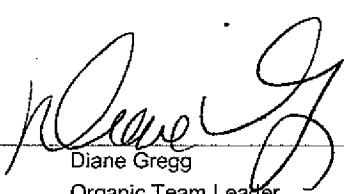
Signing the approval below indicates that the data for the above named site/activity number has been reviewed. All data is complete for the samples received and quality control is within acceptable limits. Any exceptions have been noted in the comments section.

REPORT APPROVALS

COMMENTS

David Stockton
Inorganic Team Leader

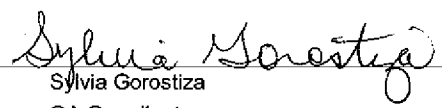
Date


Diane Gregg
Organic Team Leader

Date

Melvin Ritter
Laboratory Support Team Leader

Date


Sylvia Gorostiza
QA Coordinator

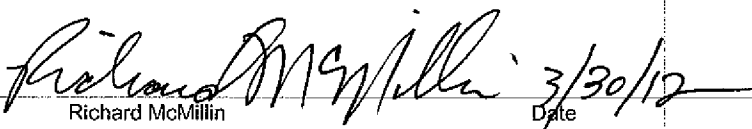
Date

Marvelyn Humphrey
Associate Branch Chief

Date

REPORT RELEASE AUTHORIZATION

COMMENTS


Richard McMillin
Deputy Branch Chief

Date



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 6 Laboratory

10625 Fallstone Rd, Houston, TX 77099
Phone:(281)983-2100 Fax:(281)983-2248

WORK ORDER

Printed: 3/7/2012 12:06:29PM

1203005

U.S. EPA, Region 6 ATTN: Christy Warren

Client: R6 Regional Support
Project: Dimock Residential Groundwater Site

Project Manager: Christy Warren
Project Number: 12SF073

Report To:

R6 Regional Support
Cynthia Caporale (3EA21)
10625 Fallstone Road
Houston, TX 77099
Phone: (281) 983-2100
Fax: (281) 983-2248

GPRA Code:
Cerclis Number:
Site Spill ID:

Date Due: 03/28/12 15:00 (15 day TAT)

Received By: Isaiah Harris

Date Received: 03/07/12 09:50

Logged In By: Christy Warren

Date Logged In: 03/07/12 11:59

Samples Received at: 6°C
Package Custody Seal Yes Sample Tags No
On Ice Yes Chain of Custody Yes
Intact Yes Preserved No
Sample Custody Seals Yes

Prelim results ASAP. Final hardcopy TAT = 21 days

Analysis	Due	TAT	Expires	Comments
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1203005-01 FB19 [Liquid] Sampled 03/05/12 09:36 Central

ABN Glycols	3/28/12	15	03/12/12 09:36	
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1203005-02 HW56 [Liquid] Sampled 03/05/12 16:54 Central

Extra volume for QC

ABN Glycols	3/28/12	15	03/12/12 16:54	
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1203005-03 HW60 [Liquid] Sampled 03/05/12 12:25 Central

ABN Glycols	3/28/12	15	03/12/12 12:25	
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Reviewed By

Date

Sample Log In/Corrective Action Form

Site Name: Dimeck Residential Groundwater Date Received: 3-7-12Project Number/Work Order Number (Number of Samples [i.e. 01 - 10]): 12SF073/1203005(01-03) Time Received: 9:50Number of Coolers: 1

Delivered By:	<u>Fed Ex / Airborne</u>	<input checked="" type="checkbox"/> USPS	<input type="checkbox"/> Hand Delivered	<input type="checkbox"/> UPS	<input type="checkbox"/> Other
Ice Chest Custody Seal:	Intact	<input checked="" type="checkbox"/> Not-Intact	<input type="checkbox"/> Absent	<input type="checkbox"/> Not Applicable	<input type="checkbox"/>
Ice Chest Packing:	Ice	<input checked="" type="checkbox"/> Vermiculite	<input type="checkbox"/> Zip Lock Bags	<input type="checkbox"/> Bubble Wrap	<input checked="" type="checkbox"/> Other
Condition of Samples:	Intact	<input checked="" type="checkbox"/> Leaking	<input type="checkbox"/> Broken	<input type="checkbox"/>	<input type="checkbox"/>
Sample Custody Seals:	Intact	<input checked="" type="checkbox"/> Not Intact	<input type="checkbox"/> Absent	<input type="checkbox"/>	<input type="checkbox"/>
Chain of Custody:	Present	<input checked="" type="checkbox"/> Absent	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sample Tags:	Present	<input checked="" type="checkbox"/> Absent	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Is the Sample Tag Marked for Chemical Preservation (if required):	Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> Not Applicable	<input type="checkbox"/>	<input type="checkbox"/>
Is the Sample Tag Marked with the correct chemical preservation? (if required):	Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> Not Applicable	<input type="checkbox"/>	<input type="checkbox"/>

Comments:

Initial: I.H. Date: 3-7-12

Project Officer (PO): _____ Phone #: _____

Notified PO of any discrepancies/problems on _____ by _____
(Date) (Initial)

USEPA CLP Generic COC (LAB COPY)

CHAIN OF CUSTODY RECORD

No: 3-030612-085615-0247

DateShipped: 3/6/2012

CarrierName: FedEx

AirbillNo: 7981 3489 3053

Case #: CT5928

Lab: EPA R6 Laboratory

Lab Contact: Christy Warren

Lab Phone: 2819832137

Sample #	Matrix/Sampler	Coll. Method	Analysis/Turnaround	Tag/Preservative/Bottles	Station Location	Collected	For Lab Use Only
FB19	Aqueous/ Joel Munson	Grab	Ethylene Glycol, Ethylene Glycol	19052 (-NA- / 40mlGlassVial), 19053 (-NA- / 40mlGlassVial) (2)	FB19	03/05/2012 09:36	
HW56	Drinking Water/ Mike Ferrier	Grab	Ethylene Glycol, Ethylene Glycol, Ethylene Glycol, Ethylene Glycol, Ethylene Glycol, Ethylene Glycol	19119 (-NA- / 40mlGlassVial), 19120 (-NA- / 40mlGlassVial), 19138 (-NA- / 40mlGlassVial), 19139 (-NA- / 40mlGlassVial), 19140 (-NA- / 40mlGlassVial), 19141 (-NA- / 40mlGlassVial) (6)	HW56	03/05/2012 16:54	
HW60	Drinking Water/ Mike Ferrier	Grab	Ethylene Glycol, Ethylene Glycol	19085 (-NA- / 40mlGlassVial), 19086 (-NA- / 40mlGlassVial) (2)	HW60	03/05/2012 12:25	

Sample(s) to be used for Lab QC: HW56						Shipment for Case Complete? N	
Analysis Key						Samples Transferred From Chain of Custody #	

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
10	DeLacourne	3/6/12	Isaiah Harris	3/7/12	9:50						

Sample Temp: 6°C

DIM0096228

DIM0096205

From: (304) 230-1230 Origin ID: BGMA
 Brian Burris Sample Management_Dim
 TechLaw, Inc.
 63 PENNFIELD RD

MONTROSE, PA 18801



J12101112190225

Ship Date: 06MAR12
 ActWgt: 10.0 LB
 CAD: 8747913/INET3250

Delivery Address Bar Code

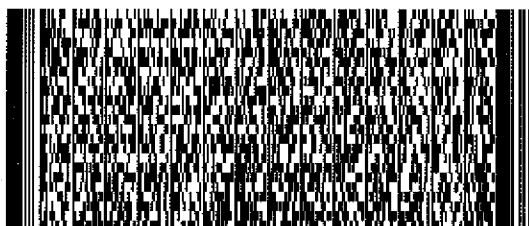


Ref # TL01-11-12-001
 Invoice #
 PO #
 Dept #

SHIP TO: (281) 983-2137

BILL SENDER

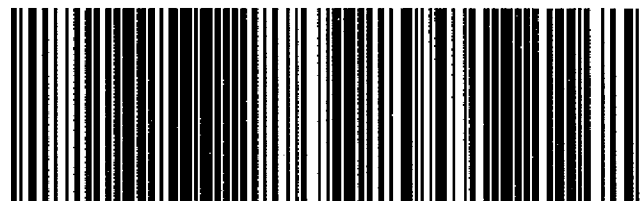
Christy Warren
U.S. EPA Region 6 Laboratory
10625 FALLSTONE RD
SAMPLE CONTROL CENTER
HOUSTON, TX 77099



TRK# 7981 3489 3053
 0201

XH SGRA

WED - 07 MAR A2
PRIORITY OVERNIGHT
ASR
77099
 TX-US
IAH



512G1B1D5/A278

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 6 Laboratory

10625 Fallstone Rd, Houston, TX 77099
Phone:(281)983-2100 Fax:(281)983-2248

WORK ORDER

Printed: 3/8/2012 10:58:11AM

1203007

U.S. EPA, Region 6 ATTN: Christy Warren

Client: R6 Regional Support
Project: Dimock Residential Groundwater Site

Project Manager: Christy Warren
Project Number: 12SF073

Report To:

R6 Regional Support
Cynthia Caporale (3EA21)
10625 Fallstone Road
Houston, TX 77099
Phone: (281) 983-2100
Fax: (281) 983-2248

GPRA Code:
Cerelis Number:
Site Spill ID:

Date Due: 04/06/12 15:00 (21 day TAT)

Received By: Isaiah Harris

Date Received: 03/08/12 09:00

Logged In By: Isaiah Harris

Date Logged In: 03/08/12 10:47

Samples Received at: 4°C

Prelim results ASAP. Final hardcopy TAT = 21 days

Package Custody Seal	Yes	Sample Tags	Yes
On Ice	Yes	Chain of Custody	Yes
Intact	Yes	Preserved	No
Sample Custody Seals	No		

Analysis	Due	TAT	Expires	Comments
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1203007-01 FB20 [Liquid] Sampled 03/06/12 14:00 Central

ABN Glycols	4/3/12	18	03/13/12 14:00
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1203007-02 HW61 [Liquid] Sampled 03/06/12 15:42 Central

ABN Glycols	4/3/12	18	03/13/12 15:42
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1203007-03 HW61-P [Liquid] Sampled 03/06/12 16:00 Central

ABN Glycols	4/3/12	18	03/13/12 16:00
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1203007-04 HW61z [Liquid] Sampled 03/07/12 15:42 Central

ABN Glycols	4/3/12	18	03/14/12 15:42
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Reviewed By

Date

Sample Log In/Corrective Action Form

Site Name: Dimock Residential Groundwater Date Received: 3-8-12Project Number/Work Order Number (Number of Samples (i.e. 01 - 10)): 12SF073/1203007(01-04) Time Received: 9:00Number of Coolers: 1

Delivered By:	<input checked="" type="checkbox"/> Fed Ex Airborne	<input checked="" type="checkbox"/> USPS	<input type="checkbox"/> Hand Delivered	<input type="checkbox"/> UPS	<input type="checkbox"/> Other
Ice Chest Custody Seal:	<input type="checkbox"/> Intact	<input checked="" type="checkbox"/> Not-Intact	<input type="checkbox"/> Absent	<input checked="" type="checkbox"/> Not Applicable	<input type="checkbox"/>
Ice Chest Packing:	<input type="checkbox"/> Ice	<input checked="" type="checkbox"/> Vermiculite	<input checked="" type="checkbox"/> Zip Lock Bags	<input checked="" type="checkbox"/> Bubble Wrap	<input checked="" type="checkbox"/> Other
Condition of Samples:	<input type="checkbox"/> Intact	<input checked="" type="checkbox"/> Leaking	<input type="checkbox"/> Broken	<input type="checkbox"/>	<input type="checkbox"/>
Sample Custody Seals:	<input type="checkbox"/> Intact	<input checked="" type="checkbox"/> Not Intact	<input type="checkbox"/> Absent	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Chain of Custody:	<input type="checkbox"/> Present	<input checked="" type="checkbox"/> Absent	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sample Tags:	<input type="checkbox"/> Present	<input checked="" type="checkbox"/> Absent	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Is the Sample Tag Marked for Chemical Preservation (if required):	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> Not Applicable	<input type="checkbox"/>	<input type="checkbox"/>
Is the Sample Tag Marked with the correct chemical preservation? (if required):	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> Not Applicable	<input type="checkbox"/>	<input type="checkbox"/>

Comments:

Initial: I.H. Date: 3-8-12

Project Officer (PO): _____ Phone #: _____

Notified PO of any discrepancies/problems on _____ by _____
(Date) (Initial)

USEPA CLP Generic COC (LAB COPY)

DateShipped: 3/7/2012

CarrierName: FedEx

AirbillNo: 7981 4076 7688

CHAIN OF CUSTODY RECORD

Case #: CT5928

No: 3-030712-111413-0253

Lab: EPA R6 Laboratory

Lab Contact: Christy Warren

Lab Phone: 2819832137

Sample #	Matrix/Sampler	Coll. Method	Analysis/Turnaround	Tag/Preservative/Bottles	Station Location	Collected	For Lab Use Only
FB20	Aqueous/ Joel Munson	Grab	Ethylene Glycol, Ethylene Glycol	19242 (-NA- / 40mlGlassVial), 19243 (-NA- / 40mlGlassVial) (2)	FB20	03/06/2012 14:00	
HW61	Drinking Water/ Mike Ferrier	Grab	Ethylene Glycol, Ethylene Glycol	19172 (-NA- / 40mlGlassVial), 19173 (-NA- / 40mlGlassVial) (2)	HW61	03/06/2012 15:42	
HW61-P	Drinking Water/ Brian Burris	Grab	Ethylene Glycol, Ethylene Glycol	19216 (-NA- / 40mlGlassVial), 19217 (-NA- / 40mlGlassVial) (2)	HW61-P	03/06/2012 16:00	
HW61z	Drinking Water/ Mike Ferrier	Grab	Ethylene Glycol, Ethylene Glycol	19198 (-NA- / 40mlGlassVial), 19199 (-NA- / 40mlGlassVial) (2)	HW61	03/06/2012 15:42	

Special Instructions:

Shipment for Case Complete? N

Samples Transferred From Chain of Custody #

Analysis Key

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
8	<i>Dally</i>	3/7/12	<i>Isiah Harris</i>	3/8/12	9:00						

Sample Temp: 4°C

From: (304) 230-1230
 Brian Burris Sample Management_Dirn
 TechLaw, Inc.
 63 PENNFIELD RD

Origin ID: BGMA



J12101112190225

MONTROSE, PA 18801

Ship Date: 07MAR12
 Act/Wgt: 10.0 LB
 CAD: 8747913/NET3250

Delivery Address Bar Code

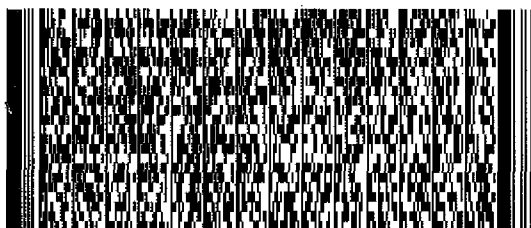


SHIP TO: (281) 983-2137

BILL SENDER

Christy Warren
U.S. EPA Region 6 Laboratory
10625 FALLSTONE RD
SAMPLE CONTROL CENTER
HOUSTON, TX 77099

Ref # TL01-11-12-001
 Invoice #
 PO #
 Dept #

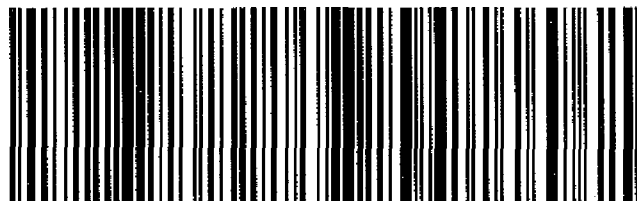


TRK# 7981 4076 7688
 0201

THU - 08 MAR A2
PRIORITY OVERNIGHT

ASR
77099
 TX-US
IAH

XH SGRA



512G181D5/A278

1. Select the 'Print' button to print 1 copy of each label.
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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 6 Laboratory

10625 Fallstone Rd, Houston, TX 77099
Phone:(281)983-2100 Fax:(281)983-2248

WORK ORDER

Printed: 3/9/2012 11:26:10AM

1203012

U.S. EPA, Region 6 ATTN: Christy Warren

Client: R6 Regional Support
Project: Dimock Residential Groundwater Site

Project Manager: Christy Warren
Project Number: 12SF073

Report To:

R6 Regional Support
Cynthia Caporale (3EA21)
10625 Fallstone Road
Houston, TX 77099
Phone: (281) 983-2100
Fax: (281) 983-2248

GPRA Code:
Cerclis Number:
Site Spill ID:

Date Due: 03/30/12 15:00 (15 day TAT)

Received By: Isaiah Harris

Date Received: 03/09/12 09:30

Logged In By: Christy Warren

Date Logged In: 03/09/12 09:32

Samples Received at: 4°C
Package Custody Seal Yes Sample Tags Yes
On Ice Yes Chain of Custody Yes
Intact Yes Preserved No
Sample Custody Seals No

Prelim results ASAP. Final hardcopy TAT = 21 days

Analysis	Due	TAT	Expires	Comments
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1203012-01 FB21 [Liquid] Sampled 03/08/12 13:38 Central				
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ABN Glycols	3/30/12	15	03/15/12 13:38	
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1203012-02 HW50 [Liquid] Sampled 03/08/12 15:09 Central				
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ABN Glycols	3/30/12	15	03/15/12 15:09	
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Reviewed By

Date

Sample Log In/Corrective Action Form

Site Name: Dimock Residential GroundwaterDate Received: 3-9-12Project Number/Work Order Number (Number of Samples [i.e. 01 - 10]): 12SF073/1203012 (01-02)Time Received: 9:30Number of Coolers: 1

Delivered By:	<input checked="" type="checkbox"/> Fed Ex / Airborne	<input checked="" type="checkbox"/> USPS	<input type="checkbox"/> Hand Delivered	<input type="checkbox"/> UPS	<input type="checkbox"/> Other
Ice Chest Custody Seal:	<input checked="" type="checkbox"/> Intact	<input checked="" type="checkbox"/> Not-Intact	<input type="checkbox"/> Absent	<input type="checkbox"/> Not Applicable	<input type="checkbox"/>
Ice Chest Packing:	<input checked="" type="checkbox"/> Ice	<input checked="" type="checkbox"/> Vermiculite	<input type="checkbox"/> Zip Lock Bags	<input type="checkbox"/> Bubble Wrap	<input type="checkbox"/> Other
Condition of Samples:	<input checked="" type="checkbox"/> Intact	<input checked="" type="checkbox"/> Leaking	<input type="checkbox"/> Broken	<input type="checkbox"/>	<input type="checkbox"/>
Sample Custody Seals:	<input checked="" type="checkbox"/> Intact	<input checked="" type="checkbox"/> Not Intact	<input type="checkbox"/> Absent	<input type="checkbox"/>	<input type="checkbox"/>
Chain of Custody:	<input checked="" type="checkbox"/> Present	<input checked="" type="checkbox"/> Absent	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sample Tags:	<input checked="" type="checkbox"/> Present	<input checked="" type="checkbox"/> Absent	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Is the Sample Tag Marked for Chemical Preservation (if required):	<input checked="" type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> Not Applicable	<input type="checkbox"/>	<input type="checkbox"/>
Is the Sample Tag Marked with the correct chemical preservation? (if required):	<input checked="" type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> Not Applicable	<input type="checkbox"/>	<input type="checkbox"/>

Comments:

Initial: I.H. Date: 3-9-12

Project Officer (PO): _____ Phone #: _____

Notified PO of any discrepancies/problems on _____ by _____
(Date) (Initial)

No: 3-030812-165546-0262

Lab: EPA R6 Laboratory

Lab Contact: Christy Warren

Lab Phone: 2819832137

[illegible]

Special Instructions:	Shipment for Case Complete? N
	Samples Transferred From Chain of Custody #
Analysis Key	

[illegible]

Sample Temp: 4°C

From: (304) 230-1230 Origin ID: BGMA
 Brian BurrisSample Management_Dim
 TechLaw, Inc.
 63 PENNFIELD RD

MONTROSE, PA 18801



J12101112190225

Ship Date: 08MAR12
 ActWgt: 8.0 LB
 CAD: 8747913/INET3250

Delivery Address Bar Code

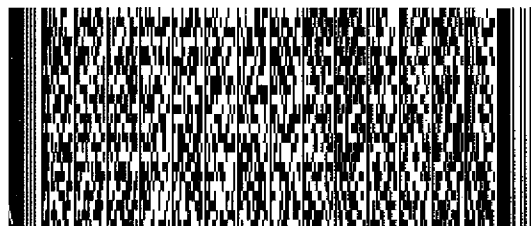


SHIP TO: (281) 983-2137

BILL SENDER

Christy Warren
U.S. EPA Region 6 Laboratory
10625 FALLSTONE RD
SAMPLE CONTROL CENTER
HOUSTON, TX 77099

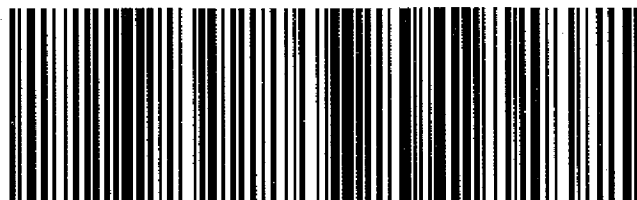
Ref # TL01-11-12-001
 Invoice #
 PO #
 Dept #



TRK# 7981 4835 1266
 0201

XH SGRA

FRI - 09 MAR A2
PRIORITY OVERNIGHT
ASR
77099
 TX-US
IAH



512G1/01D5/0278

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 6 Laboratory

Environmental Services Branch
10625 Fallstone Road, Houston, TX 77099
Phone: (281)983-2100 Fax: (281)983-2248

Amended Final Analytical Report

Site Name -----Dimock Residential Groundwater Site

Sample Collection Date(s)-- 03/05/12 - 03/08/12

Contact----- Cynthia Caporale (3EA21)

Report Date-----05/01/12

Project #----- 12SF073

Work Order(s)-----1203005
1203007
1203012

Analyses included in this report:

ABN Glycols

Report Narrative

This report has been amended to correct the date of collection on sample 1203007-04 from 03/07/12 to 03/06/12.

The reporting limit for these compounds is 2 mg/L. The nominal detection limit is 0.5 mg/L. There were no compounds detected between the detection limit and the reporting limit.

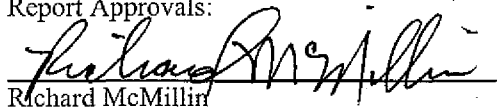
On the day the samples were analyzed propylene glycol was left out of the Blank Spike (BS). Both ethylene and propylene glycol were spiked into the MS/MSD and the recoveries were acceptable. Because the MS/MSD can substitute for the BS in the method the samples were not reanalyzed. A blank and BS were reanalyzed additionally at a later date and results were acceptable. No targets were detected in the samples.

Concentrations reported in the QC have changed slightly since the draft report was issued due to a minor change in the calibration and an adjustment to the volume used for the matrix spikes determined during the final data review process.

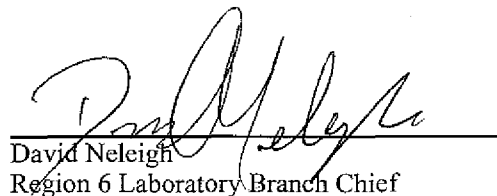
Standard procedures for quality assurance and quality control were followed in the analysis and reporting of the sample results. The results apply only to the samples tested. This final report should only be reproduced in full.

Reporting limits are adjusted for sample size and matrix interference.

Report Approvals:

A handwritten signature in black ink, appearing to read "Richard McMillin", written over a horizontal line.

Richard McMillin
Region 6 Laboratory Manager

A handwritten signature in black ink, appearing to read "David Neleigh", written over a horizontal line.

David Neleigh
Region 6 Laboratory Branch Chief



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 6 Environmental Services Branch Laboratory

10625 Fallstone Road
Houston, Texas 77099

Sample Receipt and Disposal

Site Name: Dimock Residential Groundwater Site

Project Number: 12SF073

Data Management Coordinator: Christy Warren

Christy Warren
Data Management Coordinator Signature

5/2/12
Date

Date Transmitted: 5/2/12

Please have the U.S. EPA Project Manager/Officer call the Data Management Coordinator at 3-2137 for any comments or questions.

Please sign and date this form below and return it with any comments to:

Christy Warren
Data Management Coordinator
Region 6 Laboratory
6MD-HS

Received by and Date

Comments:

The laboratory routinely disposes of samples 90 days after all analyses have been completed. If you have a need to hold these samples in custody longer than 90 days, please sign below.

Signature

Date

Please provide a reason for holding:



Environmental Protection Agency
Region 6 Laboratory

10625 Fallstone Road, Houston, TX 77099
Phone:(281)983-2100 Fax:(281)983-2248

ANALYTICAL REPORT FOR SAMPLES

Station ID	Laboratory ID	Sample Type	Date Collected	Date Received
FB19	1203005-01	Liquid	3/5/12 9:36	03/07/12 09:50
HW56	1203005-02	Liquid	3/5/12 16:54	03/07/12 09:50
HW60	1203005-03	Liquid	3/5/12 12:25	03/07/12 09:50
FB20	1203007-01	Liquid	3/6/12 14:00	03/08/12 09:00
HW61	1203007-02	Liquid	3/6/12 15:42	03/08/12 09:00
HW61-P	1203007-03	Liquid	3/6/12 16:00	03/08/12 09:00
HW61z	1203007-04	Liquid	3/6/12 15:42	03/08/12 09:00
FB21	1203012-01	Liquid	3/8/12 13:38	03/09/12 09:30
HW50	1203012-02	Liquid	3/8/12 15:09	03/09/12 09:30



Environmental Protection Agency
Region 6 Laboratory

10625 Fallstone Road, Houston, TX 77099
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Glycols by Direct Aqueous Injection Modified 8270 - GC/MS

Lab ID: 1203005-01

Station ID: FB19

Batch: B2C0702

Date Collected: 03/05/12

Sample Type: Liquid

Sample Vol: 1ml

Sample Qualifiers:

Targets

Analyte (CAS Number)	Result mg/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Propylene glycol (57-55-6)	U		2.0	1	03/09/12	03/09/12
Ethylene glycol (107-21-1)	U		2.0	"	"	"

kws



Environmental Protection Agency
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Glycols by Direct Aqueous Injection Modified 8270 - GC/MS

Lab ID: 1203005-02

Station ID: HW56

Batch: B2C0702

Date Collected: 03/05/12

Sample Type: Liquid

Sample Vol: 1ml

Sample Qualifiers:

Targets

Analyte (CAS Number)	Result mg/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Propylene glycol (57-55-6)	U		2.0	1	03/09/12	03/09/12
Ethylene glycol (107-21-1)	U		2.0	"	"	"

kws



Environmental Protection Agency
Region 6 Laboratory

10625 Fallstone Road, Houston, TX 77099
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Glycols by Direct Aqueous Injection Modified 8270 - GC/MS

Lab ID: 1203005-03

Station ID: HW60

Batch: B2C0702

Date Collected: 03/05/12

Sample Type: Liquid

Sample Vol: 1ml

Sample Qualifiers:

Targets

Analyte (CAS Number)	Result mg/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Propylene glycol (57-55-6)	U		2.0	1	03/09/12	03/09/12
Ethylene glycol (107-21-1)	U		2.0	"	"	"

kws



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10625 Fallstone Road, Houston, TX 77099
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Glycols by Direct Aqueous Injection Modified 8270 - GC/MS

Lab ID: 1203007-01

Station ID: FB20

Batch: B2C0702

Date Collected: 03/06/12

Sample Type: Liquid

Sample Vol: 1ml

Sample Qualifiers:

Targets

Analyte (CAS Number)	Result mg/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Propylene glycol (57-55-6)	U		2.0	1	03/09/12	03/09/12
Ethylene glycol (107-21-1)	U		2.0	"	"	"

kws



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Glycols by Direct Aqueous Injection Modified 8270 - GC/MS

Lab ID: 1203007-02

Station ID: HW61

Batch: B2C0702

Date Collected: 03/06/12

Sample Type: Liquid

Sample Vol: 1ml

Sample Qualifiers:

Targets

Analyte (CAS Number)	Result mg/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Propylene glycol (57-55-6)	U		2.0	1	03/09/12	03/09/12
Ethylene glycol (107-21-1)	U		2.0	"	"	"

kws



Environmental Protection Agency
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10625 Fallstone Road, Houston, TX 77099
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Glycols by Direct Aqueous Injection Modified 8270 - GC/MS

Lab ID: 1203007-03

Station ID: HW61-P

Batch: B2C0702

Date Collected: 03/06/12

Sample Type: Liquid

Sample Vol: 1ml

Sample Qualifiers:

Targets

Analyte (CAS Number)	Result mg/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Propylene glycol (57-55-6)	U		2.0	1	03/09/12	03/09/12
Ethylene glycol (107-21-1)	U		2.0	"	"	"

kws



Environmental Protection Agency
Region 6 Laboratory

10625 Fallstone Road, Houston, TX 77099
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Glycols by Direct Aqueous Injection Modified 8270 - GC/MS

Lab ID: 1203007-04

Station ID: HW61z

Batch: B2C0702

Date Collected: 03/06/12

Sample Type: Liquid

Sample Vol: 1ml

Sample Qualifiers:

Targets

Analyte (CAS Number)	Result mg/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Propylene glycol (57-55-6)	U		2.0	1	03/09/12	03/09/12
Ethylene glycol (107-21-1)	U		2.0	"	"	"

kws



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Glycols by Direct Aqueous Injection Modified 8270 - GC/MS

Lab ID: 1203012-01

Station ID: FB21

Batch: B2C0702

Date Collected: 03/08/12

Sample Type: Liquid

Sample Vol: 1ml

Sample Qualifiers:

Targets

Analyte (CAS Number)	Result mg/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Propylene glycol (57-55-6)	U		2.0	1	03/09/12	03/09/12
Ethylene glycol (107-21-1)	U		2.0	"	"	"

kws



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Glycols by Direct Aqueous Injection Modified 8270 - GC/MS

Lab ID: 1203012-02

Station ID: HW50

Batch: B2C0702

Date Collected: 03/08/12

Sample Type: Liquid

Sample Vol: 1ml

Sample Qualifiers:

Targets

Analyte (CAS Number)	Result mg/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Propylene glycol (57-55-6)	U		2.0	1	03/09/12	03/09/12
Ethylene glycol (107-21-1)	U		2.0	"	"	"

kws



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10625 Fallstone Road, Houston, TX 77099
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Glycols by Direct Aqueous Injection Modified 8270 - GC/MS - Quality Control

Batch: B2C0702

Sample Type: Liquid

Blank (B2C0702-BLK1)

Prepared: 3/9/2012 Analyzed: 3/9/2012

Targets

ANALYTE	Result mg/L	Analyte Reporting Qualifiers Limit
Propylene glycol	U	2.0
Ethylene glycol	U	2.0

Blank (B2C0702-BLK2)

Prepared: 3/14/2012 Analyzed: 3/14/2012

Targets

ANALYTE	Result mg/L	Analyte Reporting Qualifiers Limit
Propylene glycol	U	2.0
Ethylene glycol	U	2.0

LCS (B2C0702-BS1)

Prepared: 3/9/2012 Analyzed: 3/9/2012

Targets

ANALYTE	Result mg/L	Analyte Reporting Qualifiers Limit	Spike Level	%REC Limits
Ethylene glycol	53.0	2.0	50.0	106 70-130

LCS (B2C0702-BS2)

Prepared: 3/14/2012 Analyzed: 3/14/2012

Targets

ANALYTE	Result mg/L	Analyte Reporting Qualifiers Limit	Spike Level	%REC Limits
Propylene glycol	50.6	2.0	50.0	101 70-130
Ethylene glycol	58.0	2.0	50.0	116 70-130



Environmental Protection Agency
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Glycols by Direct Aqueous Injection Modified 8270 - GC/MS - Quality Control

Batch: B2C0702

Sample Type: Liquid

Matrix Spike (B2C0702-MS1)

Source: 1203005-02

Prepared: 3/9/2012 Analyzed: 3/9/2012

Targets

ANALYTE	Result mg/L	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC Limits
Propylene glycol	55.7		2.0	66.7	83.6	70-130
Ethylene glycol	67.6		2.0	66.7	101	70-130

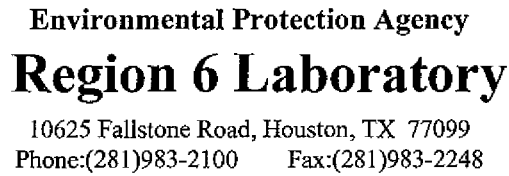
Matrix Spike Dup (B2C0702-MSD1)

Source: 1203005-02

Prepared: 3/9/2012 Analyzed: 3/9/2012

Targets

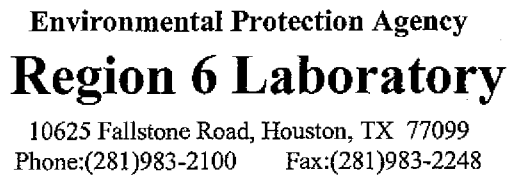
ANALYTE	Result mg/L	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC Limits	RPD	RPD Limit
Propylene glycol	53.7		2.0	66.7	80.6	70-130	3.61	30
Ethylene glycol	67.5		2.0	66.7	101	70-130	0.08	30



No: 3-30612-085615-0247
Lab: EPA R5 Laboratory
Lab Contact: Cheryl Wierman
Lab Phone: 2819532447

CHAIN OF CUSTODY RECORD

1968



No: 3-030812-168546-0262
Lab: EPA R6 Laboratory
Lab Contact: Christy Warren
Lab Phone: 281-553-2137

CHAIN OF CUSTODY RECORD

USEPA CLP Genetic Toxicology Copy

Date Shipped: 3/8/2015

Cayman Islands Customs Service

1997-1998

2000

[illegible]

Stempel: 140 C.



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Region 6 Laboratory

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Notes and Definitions

A	This sample was extracted at a single acid pH.
HTS	Sample was prepared and/or analyzed past recommended holding time. Concentrations should be considered minimum values.
AES	Atomic Emission Spectrometer
CVAA	Cold Vapor Atomic Absorption
ECD	Electron Capture Detector
GC	Gas Chromatograph
GFAA	Graphite Furnace Atomic Absorption
ICP	Inductively Coupled Plasma
MS	Mass Spectrometer
NA	Not Applicable
NPD	Nitrogen Phosphorous Detector
NR	Not Reported
TCLP	Toxicity Characteristic Leaching Procedure
U	Undetected
#	Out of QC limits

Initial pressure in air analyses is the pressure at which the canister was received in psia (pounds *per* square inch absolute pressure).

The pH reported for Volatile liquid samples was tested using a 0-14 pH indicator strip for the purpose of verifying chemical preservation.

The statistical software used for the reporting of toxicity data is ToxCalc 5.0.32, Environmental Toxicity Data Analysis System 1994-2007 Tidepool Scientific Software.

LIMS Final Report Checklist

Project Name:	Dimock Residential Groundwater		
Project Number:	125F073		
Work Order Numbers:	1203005, 1203007, 1203012		
Report Format:	R6 Chem (31).rpt		
To correct the date of collection on sample 1203007-04 from 3/7/12 to 3/6/12.			
	Yes	No	N/A
1. Is the site name correct on the printed report?	✓		
2. Is the Project Number correct on the printed report?	✓		
3. Are the sample collection dates correctly printed on the report?	✓		
4. Is the correct contact person printed on the report?	✓		
5. Are the Work Order Number(s) correct on the printed report?	✓		
6. Are the correct Work Orders included in the report?	✓		
7. Are the Station IDs correct on the printed report?	✓		
8. Is all appropriate sample data printing on the report?	✓		
9. Is all of the case narrative printing on the report?	✓		
10. Did all of the pages of the report print? Are they all numbered? P16 0616	✓		
11. If TCEQ parameters were requested has the transfer file been stored in the LIMS and is the data printing correctly on the final report?			✓
12. Has the EDD been created and saved?	✓		
13. Has the PDF of the final report been created and saved?	✓		

Reviewed By: Christy Warren Date: 4/5/12



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 6 Laboratory

Environmental Services Branch
10625 Fallstone Road, Houston, TX 77099
Phone: (281)983-2100 Fax: (281)983-2248

Amended Final Analytical Report

Site Name -----Dimock Residential Groundwater Site

Sample Collection Date(s)-- 03/05/12 - 03/08/12

Contact----- Cynthia Caporale (3EA21)

Report Date----- 04/04/12

Project #----- 12SF073

Work Order(s)----- 1203005
1203007
1203012

Analyses included in this report:

ABN Glycols

Report Narrative

This report has been amended to correct the units in the case narrative from ug/L to mg/L.

The reporting limit for these compounds is 2 mg/L. The nominal detection limit is 0.5 mg/L. There were no compounds detected between the detection limit and the reporting limit.

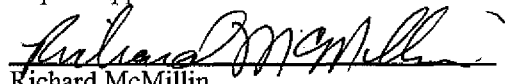
On the day the samples were analyzed propylene glycol was left out of the Blank Spike (BS). Both ethylene and propylene glycol were spiked into the MS/MSD and the recoveries were acceptable. Because the MS/MSD can substitute for the BS in the method the samples were not reanalyzed. A blank and BS were reanalyzed additionally at a later date and results were acceptable. No targets were detected in the samples.

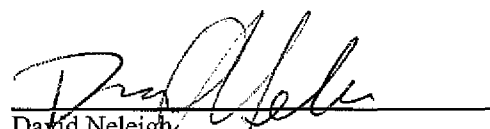
Concentrations reported in the QC have changed slightly since the draft report was issued due to a minor change in the calibration and an adjustment to the volume used for the matrix spikes determined during the final data review process.

Standard procedures for quality assurance and quality control were followed in the analysis and reporting of the sample results. The results apply only to the samples tested. This final report should only be reproduced in full.

Reporting limits are adjusted for sample size and matrix interference.

Report Approvals:


Richard McMillin
Region 6 Laboratory Manager


David Neleigh
Region 6 Laboratory Branch Chief



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 6 Environmental Services Branch Laboratory

10625 Fallstone Road
Houston, Texas 77099

Sample Receipt and Disposal

Site Name: Dimock Residential Groundwater Site

Project Number: 12SF073

Data Management Coordinator: Christy Warren

Christy Warren
Data Management Coordinator Signature

4/5/12
Date

Date Transmitted: 4/5/12

Please have the U.S. EPA Project Manager/Officer call the Data Management Coordinator at 3-2137 for any comments or questions.

Please sign and date this form below and return it with any comments to:

Christy Warren
Data Management Coordinator
Region 6 Laboratory
6MD-HS

Received by and Date

Comments:

The laboratory routinely disposes of samples 90 days after all analyses have been completed. If you have a need to hold these samples in custody longer than 90 days, please sign below.

Signature

Date

Please provide a reason for holding:



Environmental Protection Agency
Region 6 Laboratory

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Phone:(281)983-2100 Fax:(281)983-2248

ANALYTICAL REPORT FOR SAMPLES

Station ID	Laboratory ID	Sample Type	Date Collected	Date Received
FB19	1203005-01	Liquid	3/5/12 9:36	03/07/12 09:50
HW56	1203005-02	Liquid	3/5/12 16:54	03/07/12 09:50
HW60	1203005-03	Liquid	3/5/12 12:25	03/07/12 09:50
FB20	1203007-01	Liquid	3/6/12 14:00	03/08/12 09:00
HW61	1203007-02	Liquid	3/6/12 15:42	03/08/12 09:00
HW61-P	1203007-03	Liquid	3/6/12 16:00	03/08/12 09:00
HW61z	1203007-04	Liquid	3/7/12 15:42	03/08/12 09:00
FB21	1203012-01	Liquid	3/8/12 13:38	03/09/12 09:30
HW50	1203012-02	Liquid	3/8/12 15:09	03/09/12 09:30



Environmental Protection Agency
Region 6 Laboratory

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Phone:(281)983-2100 Fax:(281)983-2248

Glycols by Direct Aqueous Injection Modified 8270 - GC/MS

Lab ID: 1203005-01

Station ID: FB19

Batch: B2C0702

Date Collected: 03/05/12

Sample Type: Liquid

Sample Volume: 1 ml

Sample Qualifiers:

Targets

Analyte (CAS Number)	Result mg/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Propylene glycol (57-55-6)	U		2.0	1	03/09/12	03/09/12
Ethylene glycol (107-21-1)	U		2.0	"	"	"

kws



Environmental Protection Agency
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10625 Fallstone Road, Houston, TX 77099
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Glycols by Direct Aqueous Injection Modified 8270 - GC/MS

Lab ID: 1203005-02

Station ID: HW56

Batch: B2C0702

Date Collected: 03/05/12

Sample Type: Liquid

Sample Volume: 1 ml

Sample Qualifiers:

Targets

Analyte (CAS Number)	Result mg/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Propylene glycol (57-55-6)	U		2.0	1	03/09/12	03/09/12
Ethylene glycol (107-21-1)	U		2.0	"	"	"

kws



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Region 6 Laboratory

10625 Fallstone Road, Houston, TX 77099
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Glycols by Direct Aqueous Injection Modified 8270 - GC/MS

Lab ID: 1203005-03

Station ID: HW60

Batch: B2C0702

Date Collected: 03/05/12

Sample Type: Liquid

Sample Volume: 1 ml

Sample Qualifiers:

Targets

Analyte (CAS Number)	Result mg/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Propylene glycol (57-55-6)	U		2.0	1	03/09/12	03/09/12
Ethylene glycol (107-21-1)	U		2.0	"	"	"

kws



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Region 6 Laboratory

10625 Fallstone Road, Houston, TX 77099
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Glycols by Direct Aqueous Injection Modified 8270 - GC/MS

Lab ID: 1203007-01

Station ID: FB20

Batch: B2C0702

Date Collected: 03/06/12

Sample Type: Liquid

Sample Volume: 1 ml

Sample Qualifiers:

Targets

Analyte (CAS Number)	Result mg/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Propylene glycol (57-55-6)	U		2.0	1	03/09/12	03/09/12
Ethylene glycol (107-21-1)	U		2.0	"	"	"

kws



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Glycols by Direct Aqueous Injection Modified 8270 - GC/MS

Lab ID: 1203007-02

Station ID: HW61

Batch: B2C0702

Date Collected: 03/06/12

Sample Type: Liquid

Sample Volume: 1 ml

Sample Qualifiers:

Targets

Analyte (CAS Number)	Result mg/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Propylene glycol (57-55-6)	U		2.0	1	03/09/12	03/09/12
Ethylene glycol (107-21-1)	U		2.0	"	"	"

kws



Environmental Protection Agency
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10625 Fallstone Road, Houston, TX 77099
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Glycols by Direct Aqueous Injection Modified 8270 - GC/MS

Lab ID: 1203007-03

Station ID: HW61-P

Batch: B2C0702

Date Collected: 03/06/12

Sample Type: Liquid

Sample Volume: 1 ml

Sample Qualifiers:

Targets

Analyte (CAS Number)	Result mg/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Propylene glycol (57-55-6)	U		2.0	1	03/09/12	03/09/12
Ethylene glycol (107-21-1)	U		2.0	"	"	"

kws



Environmental Protection Agency
Region 6 Laboratory

10625 Fallstone Road, Houston, TX 77099
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Glycols by Direct Aqueous Injection Modified 8270 - GC/MS

Lab ID: 1203007-04

Station ID: HW61z

Batch: B2C0702

Date Collected: 03/07/12

Sample Type: Liquid

Sample Volume: 1 ml

Sample Qualifiers:

Targets

Analyte (CAS Number)	Result mg/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Propylene glycol (57-55-6)	U		2.0	1	03/09/12	03/09/12
Ethylene glycol (107-21-1)	U		2.0	"	"	"

kws



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Glycols by Direct Aqueous Injection Modified 8270 - GC/MS

Lab ID: 1203012-01

Station ID: FB21

Batch: B2C0702

Date Collected: 03/08/12

Sample Type: Liquid

Sample Volume: 1 ml

Sample Qualifiers:

Targets

Analyte (CAS Number)	Result mg/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Propylene glycol (57-55-6)	U		2.0	1	03/09/12	03/09/12
Ethylene glycol (107-21-1)	U		2.0	"	"	"

kws



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Glycols by Direct Aqueous Injection Modified 8270 - GC/MS

Lab ID: 1203012-02

Station ID: HW50

Batch: B2C0702

Date Collected: 03/08/12

Sample Type: Liquid

Sample Volume: 1 ml

Sample Qualifiers:

Targets

Analyte (CAS Number)	Result mg/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Propylene glycol (57-55-6)	U		2.0	1	03/09/12	03/09/12
Ethylene glycol (107-21-1)	U		2.0	"	"	"

kws



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Glycols by Direct Aqueous Injection Modified 8270 - GC/MS - Quality Control

Batch: B2C0702

Sample Type: Liquid

Blank (B2C0702-BLK1)

Prepared: 3/9/2012 Analyzed: 3/9/2012

Targets

ANALYTE	Result mg/L	Analyte Reporting Qualifiers Limit
Propylene glycol	U	2.0
Ethylene glycol	U	2.0

Blank (B2C0702-BLK2)

Prepared: 3/14/2012 Analyzed: 3/14/2012

Targets

ANALYTE	Result mg/L	Analyte Reporting Qualifiers Limit
Propylene glycol	U	2.0
Ethylene glycol	U	2.0

LCS (B2C0702-BS1)

Prepared: 3/9/2012 Analyzed: 3/9/2012

Targets

ANALYTE	Result mg/L	Analyte Reporting Qualifiers Limit	Spike Level	%REC Limits
Ethylene glycol	53.0	2.0	50.0	106 70-130

LCS (B2C0702-BS2)

Prepared: 3/14/2012 Analyzed: 3/14/2012

Targets

ANALYTE	Result mg/L	Analyte Reporting Qualifiers Limit	Spike Level	%REC Limits
Propylene glycol	50.6	2.0	50.0	101 70-130
Ethylene glycol	58.0	2.0	50.0	116 70-130



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Glycols by Direct Aqueous Injection Modified 8270 - GC/MS - Quality Control

Batch: B2C0702

Sample Type: Liquid

Matrix Spike (B2C0702-MS1)

Source: 1203005-02

Prepared: 3/9/2012 Analyzed: 3/9/2012

Targets

ANALYTE	Result mg/L	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC Limits
Propylene glycol	55.7		2.0	66.7	83.6	70-130
Ethylene glycol	67.6		2.0	66.7	101	70-130

Matrix Spike Dup (B2C0702-MSD1)

Source: 1203005-02

Prepared: 3/9/2012 Analyzed: 3/9/2012

Targets

ANALYTE	Result mg/L	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC Limits	RPD RPD	Limit
Propylene glycol	53.7		2.0	66.7	80.6	70-130	3.61	30
Ethylene glycol	67.5		2.0	66.7	101	70-130	0.08	30



Environmental Protection Agency
Region 6 Laboratory

10625 Fallstone Road, Houston, TX 77099
Phone:(281)983-2100 Fax:(281)983-2248

Notes and Definitions

A	This sample was extracted at a single acid pH.
HTS	Sample was prepared and/or analyzed past recommended holding time. Concentrations should be considered minimum values.
AES	Atomic Emission Spectrometer
CVAA	Cold Vapor Atomic Absorption
ECD	Electron Capture Detector
GC	Gas Chromatograph
GFAA	Graphite Furnace Atomic Absorption
ICP	Inductively Coupled Plasma
MS	Mass Spectrometer
NA	Not Applicable
NPD	Nitrogen Phosphorous Detector
NR	Not Reported
TCLP	Toxicity Characteristic Leaching Procedure
U	Undetected
#	Out of QC limits

Initial pressure in air analyses is the pressure at which the canister was received in psia (pounds *per* square inch absolute pressure).

The pH reported for Volatile liquid samples was tested using a 0-14 pH indicator strip for the purpose of verifying chemical preservation.

The statistical software used for the reporting of toxicity data is ToxCalc 5.0.32, Environmental Toxicity Data Analysis System 1994-2007 Tidepool Scientific Software.

LIMS Final Report Checklist

Project Name:	Dimock Residential Groundwater		
Project Number:	125F073		
Work Order Numbers:	1203005, 1203007, 1203012		
Report Format:	R6chem (30).rpt		
<p>Amended Report to correct units in case narrative from ug/L to mg/L.</p>			
	Yes	No	N/A
1. Is the site name correct on the printed report?	✓		
2. Is the Project Number correct on the printed report?	✓		
3. Are the sample collection dates correctly printed on the report?	✓		
4. Is the correct contact person printed on the report?	✓		
5. Are the Work Order Number(s) correct on the printed report?	✓		
6. Are the correct Work Orders included in the report?	✓		
7. Are the Station IDs correct on the printed report?	✓		
8. Is all appropriate sample data printing on the report?	✓		
9. Is all of the case narrative printing on the report?	✓		
10. Did all of the pages of the report print? Are they all numbered? <i>P160614</i>	✓		
11. If TCEQ parameters were requested has the transfer file been stored in the LIMS and is the data printing correctly on the final report?			✓
12. Has the EDD been created and saved?	✓		
13. Has the PDF of the final report been created and saved?	✓		

Reviewed By: Christy Warren Date: 4/3/12



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 6 Laboratory

Environmental Services Branch
10625 Fallstone Road, Houston, TX 77099
Phone: (281)983-2100 Fax: (281)983-2248

Final Analytical Report

Site Name -----Dimock Residential Groundwater Site

Sample Collection Date(s)-- 03/05/12 - 03/08/12

Contact----- Cynthia Caporale (3EA21)

Report Date-----03/30/12

Project #----- 12SF073

Work Order(s)-----1203005
1203007
1203012

Analyses included in this report:

ABN Glycols

Report Narrative

The reporting limit for these compounds is 2 ug/L. The nominal detection limit is 0.5 ug/L. There were no compounds detected between the detection limit and the reporting limit.

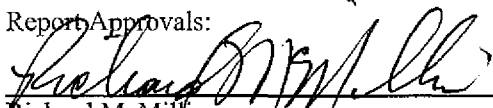
On the day the samples were analyzed propylene glycol was left out of the Blank Spike (BS). Both ethylene and propylene glycol were spiked into the MS/MSD and the recoveries were acceptable. Because the MS/MSD can substitute for the BS in the method the samples were not reanalyzed. A blank and BS were reanalyzed additionally at a later date and results were acceptable. No targets were detected in the samples.

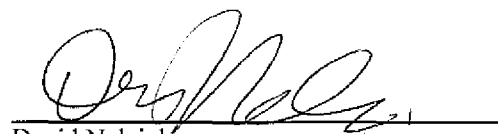
Concentrations reported in the QC have changed slightly since the draft report was issued due to a minor change in the calibration and an adjustment to the volume used for the matrix spikes determined during the final data review process.

Standard procedures for quality assurance and quality control were followed in the analysis and reporting of the sample results. The results apply only to the samples tested. This final report should only be reproduced in full.

Reporting limits are adjusted for sample size and matrix interference.

Report Approvals:


Richard McMillin
Region 6 Laboratory Manager


David Neleigh
Region 6 Laboratory Branch Chief



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 6 Environmental Services Branch Laboratory

10625 Fallstone Road
Houston, Texas 77099

Sample Receipt and Disposal

Site Name: Dimock Residential Groundwater Site

Project Number: 12SF073

Data Management Coordinator: Christy Warren

Christy Warren
Data Management Coordinator Signature

3/30/12
Date

Date Transmitted: 3/30/12

Please have the U.S. EPA Project Manager/Officer call the Data Management Coordinator at 3-2137 for any comments or questions.

Please sign and date this form below and return it with any comments to:

Christy Warren
Data Management Coordinator
Region 6 Laboratory
6MD-HS

Received by and Date

Comments:

The laboratory routinely disposes of samples 90 days after all analyses have been completed. If you have a need to hold these samples in custody longer than 90 days, please sign below.

Signature

Date

Please provide a reason for holding:



Environmental Protection Agency
Region 6 Laboratory

10625 Fallstone Road, Houston, TX 77099
Phone:(281)983-2100 Fax:(281)983-2248

ANALYTICAL REPORT FOR SAMPLES

Station ID	Laboratory ID	Sample Type	Date Collected	Date Received
FB19	1203005-01	Liquid	3/5/12 9:36	03/07/12 09:50
HW56	1203005-02	Liquid	3/5/12 16:54	03/07/12 09:50
HW60	1203005-03	Liquid	3/5/12 12:25	03/07/12 09:50
FB20	1203007-01	Liquid	3/6/12 14:00	03/08/12 09:00
HW61	1203007-02	Liquid	3/6/12 15:42	03/08/12 09:00
HW61-P	1203007-03	Liquid	3/6/12 16:00	03/08/12 09:00
HW61z	1203007-04	Liquid	3/7/12 15:42	03/08/12 09:00
FB21	1203012-01	Liquid	3/8/12 13:38	03/09/12 09:30
HW50	1203012-02	Liquid	3/8/12 15:09	03/09/12 09:30



Environmental Protection Agency
Region 6 Laboratory

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Glycols by Direct Aqueous Injection Modified 8270 - GC/MS

Lab ID: 1203005-01

Station ID: FB19

Batch: B2C0702

Date Collected: 03/05/12

Sample Type: Liquid

Sample Volume: 1 ml

Sample Qualifiers:

Targets

Analyte (CAS Number)	Result mg/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Propylene glycol (57-55-6)	U		2.0	1	03/09/12	03/09/12
Ethylene glycol (107-21-1)	U		2.0	"	"	"

kws



Environmental Protection Agency
Region 6 Laboratory

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Glycols by Direct Aqueous Injection Modified 8270 - GC/MS

Lab ID: 1203005-02

Station ID: HW56

Batch: B2C0702

Date Collected: 03/05/12

Sample Type: Liquid

Sample Volume: 1 ml

Sample Qualifiers:

Targets

Analyte (CAS Number)	Result mg/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Propylene glycol (57-55-6)	U		2.0	1	03/09/12	03/09/12
Ethylene glycol (107-21-1)	U		2.0	"	"	"

kws



Environmental Protection Agency
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Glycols by Direct Aqueous Injection Modified 8270 - GC/MS

Lab ID: 1203005-03

Station ID: HW60

Batch: B2C0702

Date Collected: 03/05/12

Sample Type: Liquid

Sample Volume: 1 ml

Sample Qualifiers:

Targets

Analyte (CAS Number)	Result mg/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Propylene glycol (57-55-6)	U		2.0	1	03/09/12	03/09/12
Ethylene glycol (107-21-1)	U		2.0	"	"	"

kws



Environmental Protection Agency
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Glycols by Direct Aqueous Injection Modified 8270 - GC/MS

Lab ID: 1203007-01

Station ID: FB20

Batch: B2C0702

Date Collected: 03/06/12

Sample Type: Liquid

Sample Volume: 1 ml

Sample Qualifiers:

Targets

Analyte (CAS Number)	Result mg/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Propylene glycol (57-55-6)	U		2.0	1	03/09/12	03/09/12
Ethylene glycol (107-21-1)	U		2.0	"	"	"

kws



Environmental Protection Agency
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Glycols by Direct Aqueous Injection Modified 8270 - GC/MS

Lab ID: 1203007-02

Station ID: HW61

Batch: B2C0702

Date Collected: 03/06/12

Sample Type: Liquid

Sample Volume: 1 ml

Sample Qualifiers:

Targets

Analyte (CAS Number)	Result mg/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Propylene glycol (57-55-6)	U		2.0	1	03/09/12	03/09/12
Ethylene glycol (107-21-1)	U		2.0	"	"	"

kws



Environmental Protection Agency
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Glycols by Direct Aqueous Injection Modified 8270 - GC/MS

Lab ID: 1203007-03

Station ID: HW61-P

Batch: B2C0702

Date Collected: 03/06/12

Sample Type: Liquid

Sample Volume: 1 ml

Sample Qualifiers:

Targets

Analyte (CAS Number)	Result mg/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Propylene glycol (57-55-6)	U		2.0	1	03/09/12	03/09/12
Ethylene glycol (107-21-1)	U		2.0	"	"	"

kws



Environmental Protection Agency
Region 6 Laboratory

10625 Fallstone Road, Houston, TX 77099
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Glycols by Direct Aqueous Injection Modified 8270 - GC/MS

Lab ID: 1203007-04

Station ID: HW61z

Batch: B2C0702

Date Collected: 03/07/12

Sample Type: Liquid

Sample Volume: 1 ml

Sample Qualifiers:

Targets

Analyte (CAS Number)	Result mg/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Propylene glycol (57-55-6)	U		2.0	1	03/09/12	03/09/12
Ethylene glycol (107-21-1)	U		2.0	"	"	"

kws



Environmental Protection Agency
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Glycols by Direct Aqueous Injection Modified 8270 - GC/MS

Lab ID: 1203012-01

Station ID: FB21

Batch: B2C0702

Date Collected: 03/08/12

Sample Type: Liquid

Sample Volume: 1 ml

Sample Qualifiers:

Targets

Analyte (CAS Number)	Result mg/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Propylene glycol (57-55-6)	U		2.0	1	03/09/12	03/09/12
Ethylene glycol (107-21-1)	U		2.0	"	"	"

kws



Environmental Protection Agency
Region 6 Laboratory

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Glycols by Direct Aqueous Injection Modified 8270 - GC/MS

Lab ID: 1203012-02

Station ID: HW50

Batch: B2C0702

Date Collected: 03/08/12

Sample Type: Liquid

Sample Volume: 1 ml

Sample Qualifiers:

Targets

Analyte (CAS Number)	Result mg/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Propylene glycol (57-55-6)	U		2.0	1	03/09/12	03/09/12
Ethylene glycol (107-21-1)	U		2.0	"	"	"

kws



Environmental Protection Agency
Region 6 Laboratory

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Glycols by Direct Aqueous Injection Modified 8270 - GC/MS - Quality Control

Batch: B2C0702

Sample Type: Liquid

Blank (B2C0702-BLK1)

Prepared: 3/9/2012 Analyzed: 3/9/2012

Targets

ANALYTE	Result mg/L	Analyte Reporting Qualifiers Limit
Propylene glycol	U	2.0
Ethylene glycol	U	2.0

Blank (B2C0702-BLK2)

Prepared: 3/14/2012 Analyzed: 3/14/2012

Targets

ANALYTE	Result mg/L	Analyte Reporting Qualifiers Limit
Propylene glycol	U	2.0
Ethylene glycol	U	2.0

LCS (B2C0702-BS1)

Prepared: 3/9/2012 Analyzed: 3/9/2012

Targets

ANALYTE	Result mg/L	Analyte Reporting Qualifiers Limit	Spike Level	%REC Limits
Ethylene glycol	53.0	2.0	50.0	106 70-130

LCS (B2C0702-BS2)

Prepared: 3/14/2012 Analyzed: 3/14/2012

Targets

ANALYTE	Result mg/L	Analyte Reporting Qualifiers Limit	Spike Level	%REC Limits
Propylene glycol	50.6	2.0	50.0	101 70-130
Ethylene glycol	58.0	2.0	50.0	116 70-130



Environmental Protection Agency
Region 6 Laboratory

10625 Fallstone Road, Houston, TX 77099
Phone: (281) 983-2100 Fax: (281) 983-2248

Glycols by Direct Aqueous Injection Modified 8270 - GC/MS - Quality Control

Batch: B2C0702

Sample Type: Liquid

Matrix Spike (B2C0702-MS1)

Source: 1203005-02

Prepared: 3/9/2012 Analyzed: 3/9/2012

Targets

ANALYTE	Result mg/L	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC Limits
Propylene glycol	55.7		2.0	66.7		83.6 70-130
Ethylene glycol	67.6		2.0	66.7		101 70-130

Matrix Spike Dup (B2C0702-MSD1)

Source: 1203005-02

Prepared: 3/9/2012 Analyzed: 3/9/2012

Targets

ANALYTE	Result mg/L	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC Limits	RPD	RPD Limit
Propylene glycol	53.7		2.0	66.7		80.6 70-130	3.61	30
Ethylene glycol	67.5		2.0	66.7		101 70-130	0.08	30



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Notes and Definitions

A	This sample was extracted at a single acid pH.
HTS	Sample was prepared and/or analyzed past recommended holding time. Concentrations should be considered minimum values.
AES	Atomic Emission Spectrometer
CVAA	Cold Vapor Atomic Absorption
ECD	Electron Capture Detector
GC	Gas Chromatograph
GFAA	Graphite Furnace Atomic Absorption
ICP	Inductively Coupled Plasma
MS	Mass Spectrometer
NA	Not Applicable
NPD	Nitrogen Phosphorous Detector
NR	Not Reported
TCLP	Toxicity Characteristic Leaching Procedure
U	Undetected
#	Out of QC limits

Initial pressure in air analyses is the pressure at which the canister was received in psia (pounds *per* square inch absolute pressure).

The pH reported for Volatile liquid samples was tested using a 0-14 pH indicator strip for the purpose of verifying chemical preservation.

The statistical software used for the reporting of toxicity data is ToxCalc 5.0.32, Environmental Toxicity Data Analysis System 1994-2007 Tidepool Scientific Software.

LIMS Final Report Checklist

Project Name:	Dimock Residential Groundwater		
Project Number:	12SF073		
Work Order Numbers:	1203005, 1203007, 1203012		
Report Format:	RbChem (29).rpt		
	Yes	No	N/A
1. Is the site name correct on the printed report?	✓		
2. Is the Project Number correct on the printed report?	✓		
3. Are the sample collection dates correctly printed on the report?	✓		
4. Is the correct contact person printed on the report?	✓		
5. Are the Work Order Number(s) correct on the printed report?	✓		
6. Are the correct Work Orders included in the report?	✓		
7. Are the Station IDs correct on the printed report?	✓		
8. Is all appropriate sample data printing on the report?	✓		
9. Is all of the case narrative printing on the report?	✓		
10. Did all of the pages of the report print? Are they all numbered? <i>Page 16</i>	✓		
11. If TCEQ parameters were requested has the transfer file been stored in the LIMS and is the data printing correctly on the final report?			✓
12. Has the EDD been created and saved?	✓		
13. Has the PDF of the final report been created and saved?	✓		

Reviewed By: Chmolywaner

Date: 3/29/12

**U.S. EPA Region 6 Laboratory
Lab Manager Review Checklist**

SITE NAME: <i>Dimock Residential CW</i>		Project #: <i>12SF073</i>			
		Work Order #: <i>1203005, 07, 412</i> Date Review Started: <i>3/30/12</i>			
Items Reviewed					Comments
	N/A	Yes	No	Fixed	
1. FINAL REPORT					
A. Cover Page Narrative					
1. Electronically Reviewed?		<input checked="" type="checkbox"/>			
2. Format / structure OK?		<input checked="" type="checkbox"/>			
3. Consistency / Readability OK?		<input checked="" type="checkbox"/>			
4. Content OK?		<input checked="" type="checkbox"/>			
5. Quality issues addressed OK?		<input checked="" type="checkbox"/>			
6. Narrative issues have data Qualifiers?		<input checked="" type="checkbox"/>			
7. Other OK?	<input checked="" type="checkbox"/>				
B. Sample Listing Page					
1. Number of Sample reports match?		<input checked="" type="checkbox"/>			
2. Match the COC request OK?		<input checked="" type="checkbox"/>			
2. Station ID's present for all samples?		<input checked="" type="checkbox"/>			
3. Dates / matrix appear OK?		<input checked="" type="checkbox"/>			
C. Analytical Results					
1. Format / Readability OK?		<input checked="" type="checkbox"/>			
2. Sample size / dilutions make sense?		<input checked="" type="checkbox"/>			<i>N/A except ms/msd</i>
3. Reporting limits OK and match result?		<input checked="" type="checkbox"/>			
4. Unusual results addressed in narrative?		<input checked="" type="checkbox"/>			
5. Qualifiers OK / addressed in narrative?		<input checked="" type="checkbox"/>			
6. Other OK?	<input checked="" type="checkbox"/>				
D. Quality Control					
1. Surrogate Problems addressed / OK?					
Organic - Air	<input checked="" type="checkbox"/>				
Organic - VOA	<input checked="" type="checkbox"/>				
Organic - ABN	<input checked="" type="checkbox"/>				
Organic - Pest/PCB	<input checked="" type="checkbox"/>				
Organic - Herbicide	<input checked="" type="checkbox"/>				
2. Lab Blank Issues addressed / OK?					
Organic - Air	<input checked="" type="checkbox"/>				
Organic - VOA	<input checked="" type="checkbox"/>				
Organic - ABN - <i>DI Glycols</i>	<input checked="" type="checkbox"/>				
Organic - Pest/PCB	<input checked="" type="checkbox"/>				

SITE NAME:				Project #:	
				Work Order #:	
				Date Review Started:	
Organic - Herbicide					
Inorganic - GFAA					
Inorganic - ICP					
Inorganic - ICP/MS					
Inorganic - Hg					
EPA Wet Chems					
Other?					
3. LCS Problems addressed / OK?					
Organic - Air					
Organic - VOA					
Organic - ABN - DI Glyc					ms/msd ok
Organic - Pest/PCB					
Organic - Herbicide					
Inorganic - GFAA					
Inorganic - ICP					
Inorganic - ICP/MS					
Inorganic - Hg					
EPA Wet Chems					
Other?					
4. Matrix Spike Problems addressed / OK?					
Organic - Air					
Organic - VOA					
Organic - ABN - DI Glyc					
Organic - Pest/PCB					
Organic - Herbicide					
Inorganic - GFAA					
Inorganic - ICP					
Inorganic - ICP/MS					
Inorganic - Hg					
EPA Wet Chems					
Other?					
5. Other Control Issues addressed / OK?					
Biology					
t-test criteria ok?					
Wilcoxon criteria ok?					
mortality matches?					
wet chems ok?					
Other					

SITE NAME:		Project #:	
		Work Order #: Date Review Started:	
E. Project Manager Review Issues			
Prep Holding times addressed / OK?	✓		
Analytic Hold Times addressed / OK?	✓		
Dates make sense?	✓		
Important Issues addressed / OK?	✓		
F. Comments Section			
Important Comments addressed / OK?	✓		
G. LIMS Issues			
LIMS functions OK?	✓		
2. COC Cursory Review OK?	✓		
3. Work Order Cursory Review OK?	✓		
4. Bench Sheets/Work Sheets Cursory Review OK?	✓		
5. Check Lists Cursory Review OK?	✓		
6. Log Book Copies Cursory Review OK?	✓		
7. <u>CORRECTIVE ACTION INITIATED?</u>	✓		
8. LIMS Sign-off?	✓		
GENERAL COMMENTS:			
SIGNATURE: <i>Richard McMillan</i>		DATE Completed: <i>3/30/12</i>	

NA = Not applicable

*Grey shaded areas indicate action is needed.

Sample Log-In Peer Review Checklist

Site Name: <u>Dimock Residential Groundwater</u>	Project Number: <u>12SF073</u>			
	Work Order Numbers: <u>1203005, 1203007, 1203012</u>			
Are the following items in the report folder?	Yes	No	N/A	Comments
Chain of Custody	✓			
Shipping Airbill	✓			
Work Order	✓			
Sample Log In/Corrective Action Form	✓			
Is the Chain of Custody Signed to accept custody of samples?	✓			
Did the Chain of Custody reflect samples which were scheduled?	✓			
Were any discrepancies noted on the Sample Log In/Corrective Action Form?		✓		
Are the samples logged into the LIMS correctly?	✓			
Are the samples on the Status Report?	✓			
Are the samples deleted from the sample expected list on the Status Report?	✓			
Is the Site Information on the Work Order correct?	✓			
Are the samples logged into the Project and Sample Log In Logbooks?	✓			

Narrative/Comments: _____

SCC-POC Signature: Christy Wauer Date: 3/15/12